

SEQUENCE LISTING

<110> Bayer Pharmaceuticals Corporation  
FROLAND, Wayne  
KELNER, Drew  
DUMAS, Michael  
PAN, Clark  
WHELAN, James  
WANG, John  
WANG, Wei

<120> PITUITARY ADENYLYL CYCLASE ACTIVATING PEPTIDE (PACAP) RECEPTOR 3  
(VPAC2) AGONISTS AND THEIR PHARMACOLOGICAL METHODS OF USE

<130> MSB-7295

<150> US 60/395,738

<151> 2002-07-12

<160> 264

<170> PatentIn version 3.2

<210> 1

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 2

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(31)

<223> Ac is acetyl

<400> 2

Ac-His Thr Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 3

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 4  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 4

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys  
20 25

<210> 5  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 5

His Thr Glu Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 6  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 6

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr  
20 25 30

<210> 7  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 7

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 8  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 8

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 9

<211> 31

<212> PRT

<213> Homo sapiens

<400> 9

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 10

<211> 31

<212> PRT

<213> Homo sapiens

<400> 10

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 11

<211> 31

<212> PRT

<213> Homo sapiens

<400> 11

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 12

<211> 30

<212> PRT

<213> Homo sapiens

<400> 12

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 13  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 13

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 14  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 14

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 15  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 15

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 16  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 16

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Lys Arg  
20 25 30

<210> 17  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 17

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Gln Lys Arg  
20 25 30

<210> 18  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 18

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Gln Lys Arg  
20 25 30

<210> 19  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 19

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Arg  
20 25 30

<210> 20  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 20

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ala  
20 25 30

<210> 21  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 21

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Phe  
20 25 30

<210> 22

<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 22

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys His  
20 25 30

<210> 23  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 23

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ile  
20 25 30

<210> 24  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 24

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Lys  
20 25 30

<210> 25  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 25

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu  
20 25 30

<210> 26  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 26

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met  
20 25 30

<210> 27

<211> 30

<212> PRT

<213> Homo sapiens

<400> 27

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Pro  
20 25 30

<210> 28

<211> 30

<212> PRT

<213> Homo sapiens

<400> 28

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln  
20 25 30

<210> 29

<211> 30

<212> PRT

<213> Homo sapiens

<400> 29

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ser  
20 25 30

<210> 30

<211> 30

<212> PRT

<213> Homo sapiens

<400> 30

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr  
20 25 30

<210> 31

<211> 30

<212> PRT

<213> Homo sapiens

<400> 31

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val  
20 25 30

<210> 32

<211> 30

<212> PRT

<213> Homo sapiens

<400> 32

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp  
20 25 30

<210> 33

<211> 30

<212> PRT

<213> Homo sapiens

<400> 33

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Tyr  
20 25 30

<210> 34

<211> 30

<212> PRT

<213> Homo sapiens

<400> 34

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 35

<211> 30

<212> PRT

<213> Homo sapiens

<400> 35

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 36  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 36

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 37  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 37

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile  
20 25 30

<210> 38  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 38

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile  
20 25 30

<210> 39  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 39

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 40  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>

<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> Ac is acetyl

<400> 40

Ac-His Thr Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 41  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 41

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 42  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 42

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys  
20 25

<210> 43  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 43

His Thr Glu Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 44  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 44

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr  
20 25 30

<210> 45  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 45

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 46  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 46

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 47  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 47

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 48  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 48

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 49  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 49

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
20 25 30

<210> 50

<211> 30

<212> PRT

<213> Homo sapiens

<400> 50

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 51

<211> 30

<212> PRT

<213> Homo sapiens

<400> 51

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 52

<211> 30

<212> PRT

<213> Homo sapiens

<400> 52

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 53

<211> 30

<212> PRT

<213> Homo sapiens

<400> 53

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
20 25 30

<210> 54  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 54

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Lys Arg  
20 25 30

<210> 55  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 55

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Gln Lys Arg  
20 25 30

<210> 56  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 56

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Gln Lys Arg  
20 25 30

<210> 57  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 57

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Arg  
20 25 30

<210> 58  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 58

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ala  
20 25 30

<210> 59  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 59

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Phe  
20 25 30

<210> 60  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 60

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys His  
20 25 30

<210> 61  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 61

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ile  
20 25 30

<210> 62  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 62

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Lys  
20 25 30

<210> 63

<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu  
20 25 30

<210> 64  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 64

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met  
20 25 30

<210> 65  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 65

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Pro  
20 25 30

<210> 66  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 66

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln  
20 25 30

<210> 67  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 67

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ser  
20 25 30

<210> 68  
<211> 30  
<212> PRT  
<213> Homo sapiens  
  
<400> 68

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr  
20 25 30

<210> 69  
<211> 30  
<212> PRT  
<213> Homo sapiens  
  
<400> 69

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val  
20 25 30

<210> 70  
<211> 30  
<212> PRT  
<213> Homo sapiens  
  
<400> 70

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp  
20 25 30

<210> 71  
<211> 30  
<212> PRT  
<213> Homo sapiens  
  
<400> 71

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Tyr  
20 25 30

<210> 72  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 72

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 73

<211> 30

<212> PRT

<213> Homo sapiens

<400> 73

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 74

<211> 30

<212> PRT

<213> Homo sapiens

<400> 74

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 75

<211> 30

<212> PRT

<213> Homo sapiens

<400> 75

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile  
20 25 30

<210> 76

<211> 30

<212> PRT

<213> Homo sapiens

<400> 76

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile  
20 25 30

<210> 77  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 77

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 78  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> Ac is acetyl

<400> 78

Ac-His Thr Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 79  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 79

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 80  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 80

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys  
20 25

<210> 81

<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 81

His Thr Glu Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 82

<211> 31

<212> PRT

<213> Homo sapiens

<400> 82

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Asn Gly Gly Thr  
20 25 30

<210> 83

<211> 30

<212> PRT

<213> Homo sapiens

<400> 83

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 84

<211> 31

<212> PRT

<213> Homo sapiens

<400> 84

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 85

<211> 31

<212> PRT

<213> Homo sapiens

<400> 85

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 86

<211> 31

<212> PRT

<213> Homo sapiens

<400> 86

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 87

<211> 31

<212> PRT

<213> Homo sapiens

<400> 87

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 88

<211> 30

<212> PRT

<213> Homo sapiens

<400> 88

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 89

<211> 30

<212> PRT

<213> Homo sapiens

<400> 89

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 90

<211> 30

<212> PRT

<213> Homo sapiens

<400> 90

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 91

<211> 30

<212> PRT

<213> Homo sapiens

<400> 91

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 92

<211> 30

<212> PRT

<213> Homo sapiens

<400> 92

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Lys Arg  
20 25 30

<210> 93

<211> 30

<212> PRT

<213> Homo sapiens

<400> 93

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Asn Lys Arg  
20 25 30

<210> 94

<211> 30

<212> PRT

<213> Homo sapiens

<400> 94

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Asn Lys Arg  
20 25 30

<210> 95  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 95

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Arg  
20 25 30

<210> 96  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 96

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ala  
20 25 30

<210> 97  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 97

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Phe  
20 25 30

<210> 98  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 98

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys His  
20 25 30

<210> 99  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 99

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ile  
20 25 30

<210> 100  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 100

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Lys  
20 25 30

<210> 101  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 101

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Leu  
20 25 30

<210> 102  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 102

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Met  
20 25 30

<210> 103  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 103

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Pro  
20 25 30

<210> 104

<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 104

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Gln  
20 25 30

<210> 105  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 105

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ser  
20 25 30

<210> 106  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 106

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Thr  
20 25 30

<210> 107  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 107

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Val  
20 25 30

<210> 108  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 108

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Trp  
20 25 30

<210> 109

<211> 30

<212> PRT

<213> Homo sapiens

<400> 109

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Tyr  
20 25 30

<210> 110

<211> 30

<212> PRT

<213> Homo sapiens

<400> 110

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
20 25 30

<210> 111

<211> 30

<212> PRT

<213> Homo sapiens

<400> 111

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
20 25 30

<210> 112

<211> 30

<212> PRT

<213> Homo sapiens

<400> 112

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
20 25 30

<210> 113

<211> 30

<212> PRT

<213> Homo sapiens

<400> 113

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Arg Ile  
20 25 30

<210> 114

<211> 30

<212> PRT

<213> Homo sapiens

<400> 114

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Asn Arg Ile  
20 25 30

<210> 115

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(32)

<223> PEG is polyethylene glycol

<400> 115

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 116

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(32)

<223> Ac is acetyl; PEG is polyethylene glycol

<400> 116

Ac-His Thr Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 117

<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 117

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 118  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(30)  
<223> PEG is polyethylene glycol

<400> 118

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Cys-PEG  
20 25 30

<210> 119  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 119

His Thr Glu Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 120  
<211> 32  
<212> PRT  
<213> Homo sapiens

<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 120

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr Cys-PEG  
20 25 30

<210> 121  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 121

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys-PEG  
20 25 30

<210> 122  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 122

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 123  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 123

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 124  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 124

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 125  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(32)  
<223> PEG is polyethylene glycol

<400> 125

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys-PEG  
20 25 30

<210> 126  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 126

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys-PEG  
20 25 30

<210> 127  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 127

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys-PEG  
20 25 30

<210> 128  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 128

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys-PEG  
20 25 30

<210> 129  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 129

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys-PEG  
20 25 30

<210> 130  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 130

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Lys Arg Cys-PEG  
20 25 30

<210> 131  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 131

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Gln Lys Arg Cys-PEG  
20 25 30

<210> 132  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 132

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Gln Lys Arg Cys-PEG  
20 25 30

<210> 133  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 133

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Arg Cys-PEG  
20 25 30

<210> 134

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(31)

<223> PEG is polyethylene glycol

<400> 134

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ala Cys-PEG  
20 25 30

<210> 135

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(31)

<223> PEG is polyethylene glycol

<400> 135

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Phe Cys-PEG  
20 25 30

<210> 136

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(31)

<223> PEG is polyethylene glycol

<400> 136

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys His Cys-PEG  
20 25 30

<210> 137  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 137

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ile Cys-PEG  
20 25 30

<210> 138  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 138

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Lys Cys-PEG  
20 25 30

<210> 139  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 139

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu Cys-PEG  
20 25 30

<210> 140

<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 140

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met Cys-PEG  
20 25 30

<210> 141  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 141

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Pro Cys-PEG  
20 25 30

<210> 142  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 142

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln Cys-PEG  
20 25 30

<210> 143  
<211> 31  
<212> PRT  
<213> Homo sapiens

<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 143

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ser Cys-PEG  
20 25 30

<210> 144  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 144

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr Cys-PEG  
20 25 30

<210> 145  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 145

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val Cys-PEG  
20 25 30

<210> 146  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 146

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp Cys-PEG  
20 25 30

<210> 147  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 147

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Tyr Cys-PEG  
20 25 30

<210> 148  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 148

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile Cys-PEG  
20 25 30

<210> 149  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 149

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile Cys-PEG  
20 25 30

<210> 150  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 150

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile Cys-PEG  
20 25 30

<210> 151  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 151

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile Cys-PEG  
20 25 30

<210> 152  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> PEG is polyethylene glycol

<400> 152

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile Cys-PEG  
20 25 30

<210> 153  
<211> 123  
<212> DNA  
<213> Homo sapiens

<400> 153	ggatccatcg aaggtcgtca ctccgacgct gtttcaccg accagtacac gcgtctgcgt	60
aaacaggttt	ctgcaaagaa atacctgcag tccatcaagc agaagcgtta ctaatgactc	120
gag		123
<210> 154		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 154	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacaggt tgctgcaaag	60
aaataacctgc	agtccatcaa gcagaagcgt tac	93
<210> 155		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 155	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag	60
aaataacctgc	agtccatcaa gcagaagcgt tac	93
<210> 156		
<211> 87		
<212> DNA		
<213> Homo sapiens		
<400> 156	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacaggt tgctgcaaag	60
aaataacctgc	agtccatcaa gcagaag	87
<210> 157		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 157	cacaccgaag ctgtttcac cgaccagtac acgcgtctgc gtaaacaggt tgctgcaaag	60
aaataacctgc	agtccatcaa gcagaagcgt tac	93
<210> 158		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 158	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagct ggctgttaag	60
aaataacctgc	aggacatcaa gcagggcggt acc	93
<210> 159		
<211> 90		
<212> DNA		
<213> Homo sapiens		

<400> 159  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcgt 90

<210> 160  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 160  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagct ggctgcaaag 60  
aaataacctgc agaccatcaa gcagaagcgt tac 93

<210> 161  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 161  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag 60  
aaataacctgc agaccatcaa gcagaagcgt tac 93

<210> 162  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 162  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcacac 60  
aaataacctgc agtccatcaa gcagaagcgt tac 93

<210> 163  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 163  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag 60  
cactacctgc agtccatcaa gcagaagcgt tac 93

<210> 164  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 164  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctggcaag 60  
aaataacctgc agtccatcaa gcagaagcgt 90

<210> 165  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 165  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctaaaaag 60

aaataacctgc agtccatcaa gcagaagcgt	90
<210> 166	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 166	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctcgtaag	60
aaataacctgc agtccatcaa gcagaagcgt	90
<210> 167	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 167	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggcttccaag	60
aaataacctgc agtccatcaa gcagaagcgt	90
<210> 168	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 168	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag	60
aaataacctgc agtccatccc ccagaagcgt	90
<210> 169	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 169	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag	60
aaataacctgc agtccatcca gcagaagcgt	90
<210> 170	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 170	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag	60
aaataacctgc agtccatccg tcagaagcgt	90
<210> 171	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 171	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag	60
aaataacctgc agtccatcaa gcagcgtcgt	90

<210> 172  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 172  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaaggca 90

<210> 173  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 173  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaaggtc 90

<210> 174  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 174  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcac 90

<210> 175  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 175  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagatc 90

<210> 176  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 176  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagaag 90

<210> 177  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 177  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagctg 90

<210> 178  
<211> 90  
<212> DNA

<213> Homo sapiens

<400> 178  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagatg 90

<210> 179  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 179  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagccc 90

<210> 180  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 180  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcag 90

<210> 181  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 181  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagtcc 90

<210> 182  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 182  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagacc 90

<210> 183  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 183  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaaggtt 90

<210> 184  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 184

cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagtgg 90

<210> 185  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 185  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagtac 90

<210> 186  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 186  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctggtaag 60  
aaataacctgc agtccatcaa gcagcgtatc 90

<210> 187  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 187  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctaaaaag 60  
aaataacctgc agtccatcaa gcagcgtatc 90

<210> 188  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 188  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggcttccaag 60  
aaataacctgc agtccatcaa gcagcgtatc 90

<210> 189  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 189  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatccc ccagcgtatc 90

<210> 190  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 190  
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggcttccaag 60  
aaataacctgc agtccatccg tcagcgtatc 90

<210> 191  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 191  
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacaggt tgctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcgt tac 93

<210> 192  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 192  
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcgt tac 93

<210> 193  
<211> 87  
<212> DNA  
<213> Homo sapiens

<400> 193  
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacaggt tgctgcaaag 60  
aaataacctgc agtccatcaa gcagaag 87

<210> 194  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 194  
cacaccgaag ctgtttcac cgacaactac acgcgtctgc gtaaacaggt tgctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcgt tac 93

<210> 195  
<211> 93  
<212> DNA  
<213> Homo sapiens

<400> 195  
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagct ggctgttaag 60  
aaataacctgc aggacatcaa gcagggcgg acc 93

<210> 196  
<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 196  
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag 60  
aaataacctgc agtccatcaa gcagaagcgt 90

<210> 197

<211>	93			
<212>	DNA			
<213>	Homo sapiens			
<400>	197			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagct ggctgcaaag
aaatacctgc	agaccatcaa	gcagaagcgt	tac	60
				93
<210>	198			
<211>	93			
<212>	DNA			
<213>	Homo sapiens			
<400>	198			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcaaag
aaatacctgc	agaccatcaa	gcagaagcgt	tac	60
				93
<210>	199			
<211>	93			
<212>	DNA			
<213>	Homo sapiens			
<400>	199			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcacac
aaatacctgc	agtccatcaa	gcagaagcgt	tac	60
				93
<210>	200			
<211>	93			
<212>	DNA			
<213>	Homo sapiens			
<400>	200			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcaaag
cactacctgc	agtccatcaa	gcagaagcgt	tac	60
				93
<210>	201			
<211>	93			
<212>	DNA			
<213>	Homo sapiens			
<400>	201			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcaaag
cactacctgc	agtccatcaa	gcagaagcgt	tac	60
				93
<210>	202			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	202			
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctaaaaag
aaatacctgc	agtccatcaa	gcagaagcgt		60
				90
<210>	203			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			

<400> 203		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctcgtaag	60	
aaataacctgc agtccatcaa gcagaagcgt	90	
<210> 204		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 204		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggcttccaag	60	
aaataacctgc agtccatcaa gcagaagcgt	90	
<210> 205		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 205		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctgcaaag	60	
aaataacctgc agtccatccc ccagaagcgt	90	
<210> 206		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 206		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctgcaaag	60	
aaataacctgc agtccatcca gcagaagcgt	90	
<210> 207		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 207		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctgcaaag	60	
aaataacctgc agtccatccg tcagaagcgt	90	
<210> 208		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 208		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctgcaaag	60	
aaataacctgc agtccatcaa gcagcgtcgt	90	
<210> 209		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 209		
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaaacagat ggctgcaaag	60	

aaatacctgc agtccatcaa gcagaaggca	90
<210> 210	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 210	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaaggtc	90
<210> 211	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 211	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaagcac	90
<210> 212	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 212	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaagatc	90
<210> 213	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 213	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaagaag	90
<210> 214	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 214	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaagctg	90
<210> 215	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 215	
cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60
aaatacctgc agtccatcaa gcagaagatg	90

<210>	216			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	216	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaagccc	90	
<210>	217			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	217	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaaggcag	90	
<210>	218			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	218	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaagtcc	90	
<210>	219			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	219	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaagacc	90	
<210>	220			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	220	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaaggtt	90	
<210>	221			
<211>	90			
<212>	DNA			
<213>	Homo sapiens			
<400>	221	cactccgacg ctgtttcac cgacaactac acgcgtctgc gtaaacagat ggctgcaaag	60	
		aaataacctgc agtccatcaa gcagaagtgg	90	
<210>	222			
<211>	90			

<212>	DNA				
<213>	Homo sapiens				
<400>	222				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatcaa	gcagaagtac			90
<210>	223				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	223				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctggtaag	60
aaatacctgc	agtccatcaa	gcagcgtatc			90
<210>	224				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	224				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctaaaaag	60
aaatacctgc	agtccatcaa	gcagcgtatc			90
<210>	225				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	225				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggcttccaag	60
aaatacctgc	agtccatcaa	gcagcgtatc			90
<210>	226				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	226				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatccc	ccagcgtatc			90
<210>	227				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	227				
cactccgacg	ctgtttcac	cgacaactac	acgcgtctgc	gtaaacagat ggcttccaag	60
aaatacctgc	agtccatccg	tcagcgtatc			90
<210>	228				
<211>	93				
<212>	DNA				
<213>	Homo sapiens				

<400> 228	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacaggt tgctgcaaag	60
	aaataacctgc agtccatcaa gaacaagcgt tac	93
<210> 229		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 229	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag	60
	aaataacctgc agtccatcaa gaacaagcgt tac	93
<210> 230		
<211> 87		
<212> DNA		
<213> Homo sapiens		
<400> 230	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacaggt tgctgcaaag	60
	aaataacctgc agtccatcaa gaacaag	87
<210> 231		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 231	cacaccgaag ctgtttcac cgaccagtac acgcgtctgc gtaaaacaggt tgctgcaaag	60
	aaataacctgc agtccatcaa gaacaagcgt tac	93
<210> 232		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 232	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagct ggctgttaag	60
	aaataacctgc aggacatcaa gaacggcggt acc	93
<210> 233		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 233	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag	60
	aaataacctgc agtccatcaa gaacaagcgt	90
<210> 234		
<211> 93		
<212> DNA		
<213> Homo sapiens		
<400> 234	cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagct ggctgcaaag	60

aaatacctgc agaccatcaa gaacaagcgt tac	93
<210> 235	
<211> 93	
<212> DNA	
<213> Homo sapiens	
<400> 235	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag	60
aaatacctgc agaccatcaa gaacaagcgt tac	93
<210> 236	
<211> 93	
<212> DNA	
<213> Homo sapiens	
<400> 236	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcacac	60
aaatacctgc agtccatcaa gaacaagcgt tac	93
<210> 237	
<211> 93	
<212> DNA	
<213> Homo sapiens	
<400> 237	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctgcaaag	60
cactacctgc agtccatcaa gaacaagcgt tac	93
<210> 238	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 238	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctggcaag	60
aaatacctgc agtccatcaa gaacaagcgt	90
<210> 239	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 239	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctaaaaag	60
aaatacctgc agtccatcaa gaacaagcgt	90
<210> 240	
<211> 90	
<212> DNA	
<213> Homo sapiens	
<400> 240	
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaaacagat ggctcgtaag	60
aaatacctgc agtccatcaa gaacaagcgt	90

<210>	241				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	241				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggcttccaag	60
aaatacctgc	agtccatcaa	gaacaaggct			90
<210>	242				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	242				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatccc	caacaaggct			90
<210>	243				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	243				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatcca	gaacaaggct			90
<210>	244				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	244				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatccg	taacaaggct			90
<210>	245				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	245				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatcaa	gaaccgtcgt			90
<210>	246				
<211>	90				
<212>	DNA				
<213>	Homo sapiens				
<400>	246				
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat ggctgcaaag	60
aaatacctgc	agtccatcaa	gaacaaggca			90
<210>	247				
<211>	90				
<212>	DNA				

<213> Homo sapiens  
 <400> 247  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaagttc 90

<210> 248  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 248  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaaggcac 90

<210> 249  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 249  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaagatc 90

<210> 250  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 250  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaagaag 90

<210> 251  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 251  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaagctg 90

<210> 252  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 252  
 cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgcaaag 60  
 aaataacctgc agtccatcaa gaacaagatg 90

<210> 253  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens  
 <400> 253

cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagccc				90
<210>	254					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	254					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagcag				90
<210>	255					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	255					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagtcc				90
<210>	256					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	256					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagacc				90
<210>	257					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	257					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagggtt				90
<210>	258					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	258					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagtgg				90
<210>	259					
<211>	90					
<212>	DNA					
<213>	Homo sapiens					
<400>	259					
cactccgacg	ctgtttcac	cgaccagtac	acgcgtctgc	gtaaacagat	ggctgcaaag	60
aaataacctgc	agtccatcaa	gaacaagtac				90

<210> 260		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 260		
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctggtaag	60	
aaatacctgc agtccatcaa gaaccgtatc	90	
<210> 261		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 261		
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctaAAAAG	60	
aaatacctgc agtccatcaa gaaccgtatc	90	
<210> 262		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 262		
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggcttccaAG	60	
aaatacctgc agtccatcaa gaaccgtatc	90	
<210> 263		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 263		
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggctgCAAAG	60	
aaatacctgc agtccatccc caaccgtatc	90	
<210> 264		
<211> 90		
<212> DNA		
<213> Homo sapiens		
<400> 264		
cactccgacg ctgtttcac cgaccagtac acgcgtctgc gtaaacagat ggcttCCAAG	60	
aaatacctgc agtccatccg taaccgtatc	90	